John N. Willys Says They Give Highway Work Its Chief Impetus.

The amount of money spent in this country last year on highway construction amounted to approximately \$250.000,000, but this huge expenditure was more than offset by the fact that land values in most localities were increased anywhere from 100 to 400 per cent. by the road improvements. If an equal amount of money is put into road improvements each year for the next ten great the United States will be able to boast of more than a half million miles.

"The car was generally taken from the garage at an early hour and returned the comment which is the Arizona desert, where we were as sured secrecy to a certain extent and road conditions which would test the durability of any car to the utmost. "I suppose the secrecy with which we worked and the veil of mystery which surrounded the car and our unwillingness to discuss it with the Arizona people first excited the comment which have the comment which was a surrounded to approximately \$250.

years is nothing compared to what it will do in the future. When you stop to consider that there is more than one motor vehicle to every fifty people in this country, it is easy to understand the tremendous interest taken in the good reads, movement.

"With over two million cars in use at the present time and with an additional 1,300,000 planned for the year 1916, it is only logical to believe that in the years to come the proportion of good roads in the United States will be far in excess of what it is to-day.

"Figures compiled by experts show that only 10 per cent. of our public roads that only 10 per cent. of our public roads much of the time.

"The closed car, and with these people the open type is the exception.

"There was a time when the closed car could not be used outside the city because of its weight and the difficulty of handling it on bad roads. And again, on account of being badly fitted to the chassis, the body rattled and squeaked much of the time.

"The closed car could not be used outside the city because of its weight and the difficulty of handling it on bad roads. And again, on account of being badly fitted to the chassis, the body rattled and squeaked much of the time.

mated that the farmers of this country are losing \$250,000,000 annually on account of the inaccessibility of their products at certain times of the year, due to bad road conditions. This loss to the farmers is equal to the amount spent last year in road improvement work, and it will be interesting to note the next Government report to see if the farmers' losses have not been lessened materially by this huge expenditure for better roads.

*Too much credit cannot be given to the automobile for the road improvements that are going on all over the country. The town or village that neglects its streets or roadways is given a wide berth by tourists and motorists in

page is Ray M. Owen, one of the most successful men on the row in other ways than shooting. He heads the new Owen should Uncle Sam be at all timid?

BEGINNING next Sunday, THE SUN will present on this page a new service to its readers in the form of an illustrated series of prac-

owner, will be prepared by W. H. Stewart, president of the Stewart Automobile School, who has the knack of explaining in a clear and

interesting fashion the technical principles of automobile engineering.

This feature, which will be helpful to both owner and prospective

All those persons who read the first article next Sunday and the others appearing on successive Sundays will gain in the end a com-

tical articles on the parts and operation of an automobile.

FOR "SUN" READERS

MOTORING MADE EASY

plete and useful knowledge of the automobile.

GOOD ROADS PLAN

towns are to be avoided and which ones are to be recommended for tourists. The town or village that is advertised as a hard place to reach by automobile has little chance to get out of the rut. Its neighbor may be less than five miles distant, but if the roads leading into it are in good shape it is bound to grow and prosper."

EXPLAINS MARMON MYSTERY. Natives of Arisona Amased by Ter rific Test.

boast of more then a half million miles
of good roads representing a cost of
\$2,500,000,000 and an appreciation in
land values of culty \$25,000,000,000. and values of fully \$25,000,000,000.

"The big trunk lines, such as the Lincoln dishway and Dixie Highway, never would have been started had it not been for the motor car," says Mr. Willys. "And these two, I believe to be but the foreumers of others that in time will give the United States as fine a system of highways as can found in the world.

"What the coming of the automobile has accomplished in the way of road improvement work during the past ten years is nothing compared to what it works."

MORE CLOSED CARS USED.

MORE CLOSED CARS USED.

Better Bodies and Better Roads Are Responsible.

tremendous interest taken in the of roads movement.

"With over two million cars in use at car, and with these people the open type."

in excess of what it is to-day.

"Figures compiled by experts show that only 10 per cent. of our public roads are improved, while in many States the improved roads number less than 5 per cent. And, had it not been for the motor cars, this percentage would be still lower, for during the past ten years we have built more good roads than in all our previous history.

"In the report of the United States Department of Agriculture it is estimated that the farmers of this country are losing \$250,000,000 annually on account of the inaccessibility of their products at certain times of the year, due

Greater than ever in size, completeness and brilliancy, the eighth annual Newark Automobile Show, which opened Friday

a wide berth by tourists and motorists in general. The ability of the motor car to cover long distances quickly and economically enables its owner to do his trading in the town that offers the best approach to its stores.

"That is the chief reason why the more progressive towns to-day are pay-

Regardless of the great quantities of such means at the same time being hupp Motor Car Corporation adapted to be manipulated for enabling last week, in an attempt to obtain betrears of the strictly highest class. Edwin B. Jackson, president of the demountable rim when desired."

Such means at the same time being last week, in an attempt to obtain betready, rapid and easy removal of the demountable rim when desired."

On account of the embargo on Eastketed there is a tremendous shortage in cars of the strictly highest class. Edwin B. Jackson, president of the Packard Motor Car Company of New York, says that the demand for high class cars is not only unprecedented but there may not be enough to go around. It was thought several months ago that the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increased output of the Packard factory which accommand the increase of the packard factory which accommand the packard of the carbon accommand to the packard of the pac

the market a car with advanced mechanical features.

The man who remains without a tremore beneath the barrel of tower's businessible looking gun is William H. Yule, more beneath the barrel of tower's businessible looking gun is William H. Yule, manager of the local branch of the B. P. Goodrich Company, who has made greath business strides since he left Harvard. Ray Owen admits that his forte is live birds, and it is his wont on cold, slushy afternoons whene everything in New York seems disagreeable to board in mind. These men have never been arrested for any shooting scrapes, because they don't hund down and shoot their fellow men. But they will stand up and shoot down with the best of them all the clay and I've birds you can liberate.

The man who apparently is trying to shoot first the best of them all the clay and I've birds you can liberate.

The man who apparently is trying to shoot some objectionable and unsuspecting words out of another column on this page is Ray M. Owen, one of the most successful men on the row in other ways than shooting. He heads the new Owen stonding the heads the new Owen stonding the loads the new Owen the loads the new Owen stonding the loads the new Owen stondin

Leap year may inspire the fairer sex to hymeneal thoughts, but it does not seem to interfere in the least with many who have interested themselves in studying the automobile. A visit to the Stewart Automobile School 225 West Fifty-seventh street, will prove this statement. The interest women take in the work and also the rapidity with which they learn is really surprising.

Within the environs of this city there are hundreds of ladles who not only drive are hundreds of ladles who not only drive

Within the environs of this city there are hundrede of ladies who not only drive their cars but attend to the mechanical details as well. The fact that this can be done has made living in the suburbs more attractive, because the automobile has truly been the means of annexing the country home to the city.

Hugh Chalmers and His Namesake-the Chalmers Car



Here are four of a kind—the Chaimers car and three of the leading lights in the Chaimers organisation. The man entering the limenship lights in the Chaimers organisation. The man entering the limenship lights in the Chaimers organisation. The man entering the limenship lights in the cell in the stands Frank B. Willis, the newly appointed sales manager, with headquarters in Detroit. The third sturdy figure is that of George Stowe, the well known popular branch manager in this city, who is doing big things with the 3,400 r. p. m. cars given him to sell in this territory.

Mr. Stowe, who has been very busy going over spring plans with Mr. Chaimers and Mr. Willis during the past two weeks, paused long enough the other day to say that the new limousine and brougham bodies designed for the six-40 chaosis are worth seeing, and that several of these exclusive models are now on view in the salesroom at Broadway and Fiftieth street. He added that anybody interested could save much money by buying any one of these closed models.

MANY GOODYEARS IN USE.

Tire Company Makes Count is

Many Cities.

A particularly gratifying result, in the

Goodyear is one of the great exponents of cord construction to-day. For many years cords were made and sold only

Favorable Verdict.

L. H. Perlman's successful fight in es

Circuit Court of Appeals for the Second Circuit, is a subject of general comment among motorists.

It is true that the Perlman victory is

FULL LINE OF CARS AT BROOKLYN SHOW

Ninety Different Exhibits Already Assured, and All

Eversthing indicates that the fifth annual Brooklyn Automobile Show, which is to be held in the Twenty-third Regiment Armory from March 8 to 15 yell.

any motor car show held in the East this season. At the National Automo-bile shows held in this city and Chicago eyes of Goodyear officials, was the par-ticularly fine showing of cord tires only motor cars and accessories were displayed, while the Brooklyn show will have not only all of the representative makes of pleasure cars but also a com-prehensive line of motor trucks and business wagons. Also there will be shown eight different makes of motorcycles. All exhibits will be displayed on one floor. The show will afford the motor car

buyer an unusual opportunity to see collectively the latest 1916 designs.

The list of exhibitors shows that the biggest and finest cars are to be displayed along with the machines of mephayed along with the machines of mephasis. dium power, weight and price, as well as the lowest priced vehicles. The acces-sory display will be larger this season than formerly.

than formerly.

The following makes of pleasure cars will be on view: Locomobile, Metz. Auburn, Dodge, Cole, Stearns-Knight, Grant, Buick, Pierce-Arrow, Chalmers, Chevrolet, Velle, Cailliac, Mercer, Kissel, Hupmobile, Scripps-Booth, Chandier, Hudson, Haynes, Lexington, Maxwell, Mitchell, Jeffrey, Packard, National, Franklin, Crawford, Apperson, Inter-State, Oldsmobile, Reo, Studebaker, Saxon, rading in the town that offers the supproach to its ctores.

"That is the chief reason why the mere progressive towns to-day are paying strict attention to the readways that lead into them. Competition between cities and towns has forced them to take care of the needs of the meds of the motorist and by improving their thoroughfares they have benefited the whole community.

"Newspapers and magazines are doing all in their power to further the good roads movement. Many of them are going so far as to publish automospile routes that tell at a glance which sile routes the routes the motorist gentres in the country. It is situated in a rich manufacture, the lock, Apperson, Inter-State, but a covers the ready and the routes and users, which which, Apperson, Inter-State, but, Crawford, Apperson, Inter-State, but, Crawford, Apperson, Inter-State, but, Apperson, Inter-State, and user

Has Cars Enough.

MORE MOTORING **BRINGS MORE JOY** To ascertain the degree of popularity of Goodyear tires with the motorists of the country, the Goodyear Tire and Rubber Company of Akron, Ohio, recently completed a five day tire count in seventy-one of its branch cities, representative cities in all parts of the United States. The multiplicity of brands of tires now being used was strikingly shown in the

Studebaker Head Believes Automobile Will Soon Outstrip Railroads as Carriers.

nual Brooklyn Automobile Show, which is to be held in the Twenty-third Regiment Armory from March 8 to 15, will the a great success from every viewpoint. To date there are ninety different exhibits, and the entire show space of the big armory has been allotted.

The Brooklyn show will differ from any motor car show held in the East this season. At the National Automobile season. At the National Automobile season, at the Twenty Hall of all the many cities nearly hull of all the interest were Goodyears. An inter-chief competitors in self-propelled velocity to the count was that the five leading tire companies of the United States, of the tires made by the motorists of the United States, of the tires made by the motorists of the United States, of the tires made by the motorists of the United States, of the tires made by the motorists of the Companies are supplying 67 per cent. of all the country the motorists of the companies are supplying 67 per cent. of all the country the motorists of the companies are supplying 67 per cent. Of all the country the motorists of the companies are supplying 67 per cent. Of all the country the motorists of the companies are supplying 67 per cent. Of all the country the motorists of the compan

Corporation, who continues: "This pre diction is made because of the far reach ing and ever growing popularity of the automobile, its application to individual uses, its wide range of action, its econmy, privacy, charm and healthfulness. "The automobile is 'par excellence' the chicle of every man and his family, for

for electrics, but now that they are being made for the larger gasolene cars a much larger motoring public is interusiness as well as pleasure. The motorit clings not to the beaten paths, but raverses the highways and byways of the country, and goes wherever he hooses. He increases the scope of his world, enlarges his knowledge of mer tablishing the validity of his elementary and foundation demountable rim pat-ent, just decided by the United States and conditions, and thereby broadens is experience and ability, and become happier and more prosperous citizen. "Railroads and trolley lines do not ford man such travelling facilities and leasures, chiefly because they follow eaten paths, run on fixed time sched-les and compel men to travel in a body a matter which originally interested the tire and rim makers rather than the without privacy and often in discomfort car makers and users, but after all it as witness crowded cars, bad air and as witness crowded cars, bad air and

Within the past decade the automobile industry, including the allied in dustries which furnish steel, aluminum brass, leather, hair, glass, textiles, rub ber, electrical appliances, &c., has de-veloped from almost nothing to fourth place in the industries of America."

REISS WILL GET CARS. Will Drive Hupmobiles Over Roads

means being provided for firmly and rigidly retaining the demountable rim on the fixed rim and felly while in use, such means at the same time being the Hupp Motor Car Corporation in Detroit the Hupp Motor Car Corporation in Detroit which the being the fixed rim and felly while in use. rim E. Reiss Company, local distributers for use, the Hupmobile, visited the factory of the

he cause the valves are on the outside of the "V."

Poeriner points out that the carbureter of the National Twelve is as easy to get at as the radiator cap. It is located in the middle of the "V." where it stands high, dry and warm at all times. This preferred position of the carbureter, according to Poertner, permits the National Twelve to be a regular submarine. He claims that the National Twelve can go through water of considerable depth without affecting the operation of the motor. This feature will be appreciated by cross-country drivers who sometimes are compelled to ford streams.

The Grant Motor Company of Petro builders of racing cars of his own of sign. Departing from the customas practice of other automobile manufar turners, the main plant of the American the East in order to gain ready accent to this market.

Big Output of Grants.

The Grant Motor Company of Pintonia, is on a tremendous wave of properly affect to the smarket of the petropolic forms of the customa practice of other automobile manufar turners, the main plant of the American turners, the main p

Oldsmobile Sets & Fashion.

more attractive, because the automobile has truly been the means of annexing the country home to the city.

The King Make Big Hit.

The King Motor Car Company's production for the coming year is creating favorable comment all over the country. They are patting out two chassis that will accommend and over the country. They passenger to the patting out two chassis that will accommend the country may reproduct in the country and required required production of the company. Mr. Cobugn the country and required required the company will have entire charge of the public this year after graciling entition of display copy and the selection of the public this year after graciling entition he was advertising manager of the gountry. The A. Elliott Ranney Company at 1676 Broadway handles the King in this territory.

**Company has created more or less formed and comment in the automobile shows height a country and required for the country. The appointment of Andrew E. Company has been announced from the Detroit headquarters of the company. Wir. Cobugn under way, the factory being swamped with orders. The King product is offered to the public this year after graciling entition of display copy and the selection of the public this year after graciling entition of the was advertising manager of the graciling entitles in the public this year after graciling entition of the was advertising manager of the country. The A. Elliott Ranney Company at 1676 Broadway handles the King in this territory.

**Company has created more or less further with a tendency toward lower announced that it will pay the fees reprises, which have created more or less further and comment in the automobile shows the announced from the Detroit head disposition of some of the leading concerns the surface of the position of some of the leading concerns the custom the column below the announced from the Detroit head disposition of some of the leading concerns the column below the announced from the business this season, has been the match in the surface of the

Harry J. De Bear, manager of the ocal branch of the Maxwell Motor Sales

"While we cannot yet claim that automobiles carry more people than their two chief competitors in self-propelled vehicles, namely, the railroads and trolley cars, the day will come before many years when this will be true."

the Street Cleaning Department, two in the Department of Public Works.

"There is no doubt," says Mr. De Bear, "that cars in city work really see the hardest possible kind of service, inasmuch as they are used every day in all kinds of weather and under all conditions. Therefore we feel very proud that the city saw fit to select Maxwell cars."

CADILLAC TO HAVE NOVEL EXHIBITION

Will Show Armored Car and Other Models in Broadway Salesroom.

Unique in the history of metropolitan notordom is the celebration arranged by the Deroit Cadillac Motor Car Company for Tuesday, Washington's Birthday. It will serve the dual purpose of emphasizing the greatness of George Washington and the achievement of the Cadillac for which reason the company has named it "Recognition Day."

This celebration will take the form of

This celebration will take the form of a special exhibition of all the Cadillac models, arranged in an appropriate decorative setting in the large Broadway salesroom of the company. One of the features of the exhibition will be the way salesroom of the company. One of the features of the exhibition will be the Cadillac "8" armored car, the first automobile of this type to be built in America and the only one to have been used under actual field conditions. Its body was designed by Col. R. P. Davidson, U. S. A., and it is owned by the Northwestern Naval and Military Academy. Within the past twelve months alone it has crossed the continent and served thirty days with the citizen soldiers at Plattsburg and a similar period at the Illinois encampment.

Commenting on the purpose of this unique celebration, President Inglis M. Uppercu says the underlying idea is one of recognition of the contributions which cadillac has made to the American actomobile industry. Every one knows that George Washington was "first in war, first in peace and first in the hearts of his countrymen," but now many appreciate that the Cadillac was the first in quantity production of quality cars, first to use electric starting and lighting, and first to employ the high efficiency type of motor.

WILLIAM L. Colt, president of the Colt. Stratton Company, Broadway and Fifty, seventh street, which handles the Dodg. Stratton Company, Broadway and Fifty, seventh street, which handles the Dodg. Bros. and Cole cars, states that these has never been such a spirit of optimism as is shown this winter. The heavy really buying at the site of the year, has a substantial evidence of a very prosperous period ahead for every one. "The way the people are buying care emphasizes the fact that the automobile is an economic tool of present day life and on a par with other utilities such as the telegraph and the telephone," on the telegraph and the telephone, on the telegraph and the telephone of new registrations every year show that business and professional people are buying care emphasizes the fact that the automobile is a time, labor and the telep

MAXWELLS IN CITY SERVICE. Harry De Bear Sells Eight Cars to lighting, and first to employ the high

Corporation, announces that the Maxwell company has sold and delivered eight cars for municipal work in the Borough of Queens. Five cars will be used in the Street Cleaning Department, two in the Topographical Department and one in the Department of Public Works, "There is no doubt," says Mr. De Bear, "that cars in city work really see the hardest possible kind of service, inasmuch as they are used every day in all kinds of weather and under all conditions. Therefore we feel very proud that the city saw fit to select Maxwell cars."

Ford Sees Big Business.

Any doubts that the keynote of this shows is business, and such being the case they represent an economic saving. "Gale our multiple cylinder car, the Cole 8." he says; "if the banker or man degeneral manager of the Saxon Motor car Company, who has just returned from the Missouri city's motor exhibition.

"While the New Yorks and Chicago shows alled business that will be done by the motor car industry during 1916, and while they were marked by stupendous wholes alled business that will be done by the motor car industry during 1916, and while they were marked by stupendous wholes alled business that will be done by the case of thousands who own the economic, low cost Dodge Brown all kinds of weather and under all consideration of the proposed and propose aside from pleasure the plays were not bubbles, inflated Eastern war prosperity and the wealth of the big manufacturing and financial centres," said Mr. Ford.

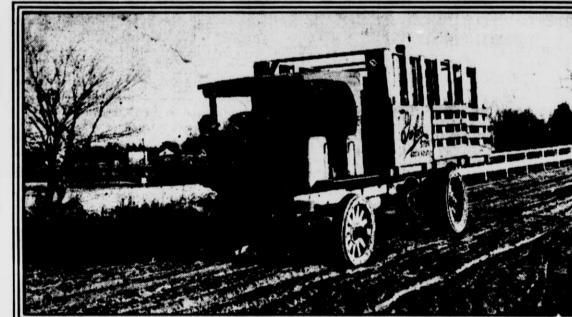
Another Optimist



WILLIAM L. COLT.

motor car from a utility standpoint more than that of pleasure, for the majority of cars to-day are used in pursuit of some business, and such being the case

Overcoming Railroad Freight Congestion



the twelve ton press in fine style, sithough much of the "going" was pretty bad.

NEW COMPANY ORGANIZED.

Louis Chevrolet and a group of East-

distributer of National motor cars, has cloped such a severe case of "accessible" that several members of his mization have suggested that Porther ve his middle name to "accessibility," his has been brought about because the rought about because the rought will be a been brought about because the fact that National twelve cylinder car is one of most accessible of all "V" type motors usees the valves are on the outside of "V." builders of racing cars of his own de-sign. Departing from the customary practice of other automobile manufac-

This feature will be appreciated by cross-country drivers who sometimes are compelled to ford streams.

Beauty is Not Skin Deep.

"Without in any way underrating the importance of mechanical efficiency as a big triking point in the sale of an automobile, it is a fact that all the chassis and motor merits possible will not sellar medium or high priced car unless that car has good looks and comfort," says Russel. "Engs, metropolitan distributer of the KisselKar.

"Appearance may not be everything, as the old proverb holds, but it does organized in the mind of the prospective purchaser of an automobile that it is difficult to efface.

"For instance, the KisselKar High Efficiency 32 has a wonderful power plant, an uncommonly simple and accessible chassis and is modern and complete in every mechanical sense. Still it would not be the exceptional seller that it is but for the beauty of its lines and the lustre of its finish."

Packard Co. Aids Aliens.

Puckard Co. Alds Aliens.

PREDICTS CAR SHORTAGE.

Moderate Priced Car to Be Made Reo's General Manager Looks for there will not be

Which will become apparent a little late "One of these prophecies was the This Condition.

"I'm goiff to repeat two prophecies that I made at the New York Show," said General Manager Scott of the Reo Motor Car Company, both of which were at that time accepted lightly but were at that time accepted lightly but were

Magnetic Company which has put on the market a car with advanced months when the factory has provided and the introduction of the introduction of

Winter Storage On Batteries

If you are laying your car up for the Winter, bring your storage battery to us. We will give it good care and regular attention, including a freshening charge once a month. You pay a fixed sum for current consumed, etc., storage space being free. If your battery is not in condition to be stored, we will make necessary repairs at reasonable cost.

This protection, during the months that are so severe upon any storage battery, means that your battery will be returned to you in the best possible condition, ready to use, in the Spring.

Ask for this Free Folder

If you intend to drive your car this Winter, you should have a copy of our folder on the "Winter Care of Storage Batteries." Prevention is better than remedies—this folder will tell you how to avoid cold weather troubles. Call at our Branch and get your copy. Expert advice, backed by intelligent service, will prevent expensive repair bills.

> Free Inspection of Any Battery at Any Time

The Prest-O-Lite Company, Inc. New York Branch, 2104 Broadway.